

Calculations based on EPA's Comments

BFK-7.6 Calculated Number of Fish Meals Community BFK 7.6 (114 meter reach, gamefish greater than 30 grams)

Common Name	Number of Fish	Minimum Weight (grams)	Maximum Weight (grams)	Average Weight (grams)
bluegill	1	46	46	46
green sunfish	1	34.5	34.5	34.5
largemouth bass	0	0	0	NA
redbreast sunfish	5	35	86.7	59.4
rock bass	3	44	185	91.4

Total weight of fish greater than 30 grams 651.6 grams
 Assume 1/2 of fish is edible 325.8 grams/filet
 Fish catch rate per trip 70% fish/trip
 Assume fishes 9 months, for a total of 30 trips 6841.8 grams/year
 Assume 227 g per meal 30.14 meals/year

Factors 70% fish catch rate for BFK

EFK- 1.0 Calculated Number of Fish Meals Community EFK 1.0 (65 meter reach, gamefish greater than 30 grams)

Common Name	Number of Fish	Minimum Weight (grams)	Maximum Weight (grams)	Average Weight (grams)
largemouth bass	1	66.2	66.2	66.2
white crappie	1	183	183	183
bluegill	5	30.3	80	46.9
redbreast sunfish	1	112	112	112
redeer sunfish	1	36.6	36.6	36.6
warmouth	3	36.3	43.8	39.3
yellow bass	11	30.4	196	87.6
yellow perch	2	32.6	32.9	32.8

Total weight of fish greater than 30 grams 1779.6 grams
 Assume 1/2 of fish is edible 889.8 grams/filet
 Assume fishes 9 months, for a total of 30 trips 11478.42 grams/year
 Assume 227 g per meal 50.57 meals/year

Factors 28% fish catch rate for EFK

BCK 0.7 Calculated Number of Fish Meals

Calculations based on TDEC's Comments

BFK-7.6 Calculated Number of Fish Meals Community BFK 7.6 (114 meter reach, gamefish greater than 30 grams)

Common Name	Number of Fish	Minimum Weight (grams)	Maximum Weight (grams)	Average Weight (grams)
bluegill	1	46	46	46
green sunfish	1	34.5	34.5	34.5
largemouth bass	0	0	0	NA
redbreast sunfish	5	35	86.7	59.4
rock bass	3	44	185	91.4

Total weight of fish greater than 30 grams 651.6 grams
 Assume 1/2 of fish is edible 325.8 grams/filet
 Fish catch rate per trip 70% fish/trip
 Assume fishes 9 months, for a total of 36 trips 8210.16 grams/year
 Assume 227 g per meal 36.17 meals/year

EFK- 1.0 Calculated Number of Fish Meals Community EFK 1.0 (65 meter reach, gamefish greater than 30 grams)

Common Name	Number of Fish	Minimum Weight (grams)	Maximum Weight (grams)	Average Weight (grams)
largemouth bass	1	66.2	66.2	66.2
white crappie	1	183	183	183
bluegill	5	30.3	80	46.9
redbreast sunfish	1	112	112	112
redeer sunfish	1	36.6	36.6	36.6
warmouth	3	36.3	43.8	39.3
yellow bass	11	30.4	196	87.6
yellow perch	2	32.6	32.9	32.8

Total weight of fish greater than 30 grams 1779.6 grams
 Assume 1/2 of fish is edible 889.8 grams/filet
 Fish catch rate per trip 28% fish/trip
 Assume fishes 9 months, for a total of 36 trips 8969.18 grams/year
 Assume 227 g per meal 39.51 meals/year

Average with the fish catch rate for BCK 0.7

BCK 0.7 Calculated Number of Fish Meals

**Community BCK 0.7 (95 meter reach,
gamefish greater than 30 grams)**

Common Name	Number of Fish	Minimum Weight	Maximum Weight	Average Weight
largemouth bass	1	73.1	73.1	73.1
green sunfish	3	33.2	72.1	46.5
redbreast sunfish	3	32.8	59	41.8
rock bass	4	36.7	116	77.5
warmouth	1	34.4	34.4	34.4

Total weight of fish greater than 30 grams

682.4 grams

Assume 1/2 of fish is edible

341.2 grams/filet

Fish catch rate per trip

58% fish/trip

Assume fishes 9 months, for a total of 30 trips

4299.12 grams/year

Factors the mean fish catch rate of 42% based on BCK 0.7 and BCK 3.3

Assume 227 g per meal

18.94 meals/year

BCK 3.3 Calculated Number of Fish Meals

**Community BCK 3.3 (84 meter reach,
gamefish greater than 30 grams)**

Common Name	Number of Fish	Minimum Weight	Maximum Weight	Average Weight
green sunfish	26			379.3

Updated fish counts & species based on incorporation of last 5 years of BMAP data (see exercise from Mark Stack)

Total weight of fish greater than 30 grams

379.3 grams

Assume 1/2 of fish is edible

189.65 grams/filet

Fish catch rate per trip

26.92% fish/trip

Assume fishes 9 months, for a total of 30 trips

2389.59 grams/year

Factors the mean fish catch rate of 42%

Assume 227 g per meal

10.53 meals/year

Average BCK Fish Meals (BCK 0.7 and 3.3)

14.73

Represents the average fish meals for BCK 3.3 and

**Community BCK 0.7 (95 meter reach,
gamefish greater than 30 grams)**

Common Name	Number of Fish	Minimum Weight	Maximum Weight	Average Weight
largemouth bass	1	73.1	73.1	73.1
green sunfish	3	33.2	72.1	46.5
redbreast sunfish	3	32.8	59	41.8
rock bass	4	36.7	116	77.5
warmouth	1	34.4	34.4	34.4

Total weight of fish greater than 30 grams

682.4 grams

Assume 1/2 of fish is edible

341.2 grams/filet

Fish catch rate per trip

58% fish/trip

Average with the fish catch rate

Assume fishes 9 months, for a total of 36 trips

7165.20 grams/year

Assume 227 g per meal

31.56 meals/year

BCK 3.3 Calculated Number of Fish Meals

**Community BCK 3.3 (84 meter reach,
gamefish greater than 30 grams)**

Common Name	Number of Fish	Minimum Weight	Maximum Weight	Average Weight
green sunfish	1	38.1	38.1	38.1

Total weight of fish greater than 30 grams

38.1 grams

Assume 1/2 of fish is edible

19.05 grams/filet

Fish catch rate per trip

700% fish/trip

See EPA's calculated fish catch rat

Assume fishes 9 months, for a total of 36 trips

4800.60 grams/year

Assume 227 g per meal

21.15 meals/year

